

FIG. 1

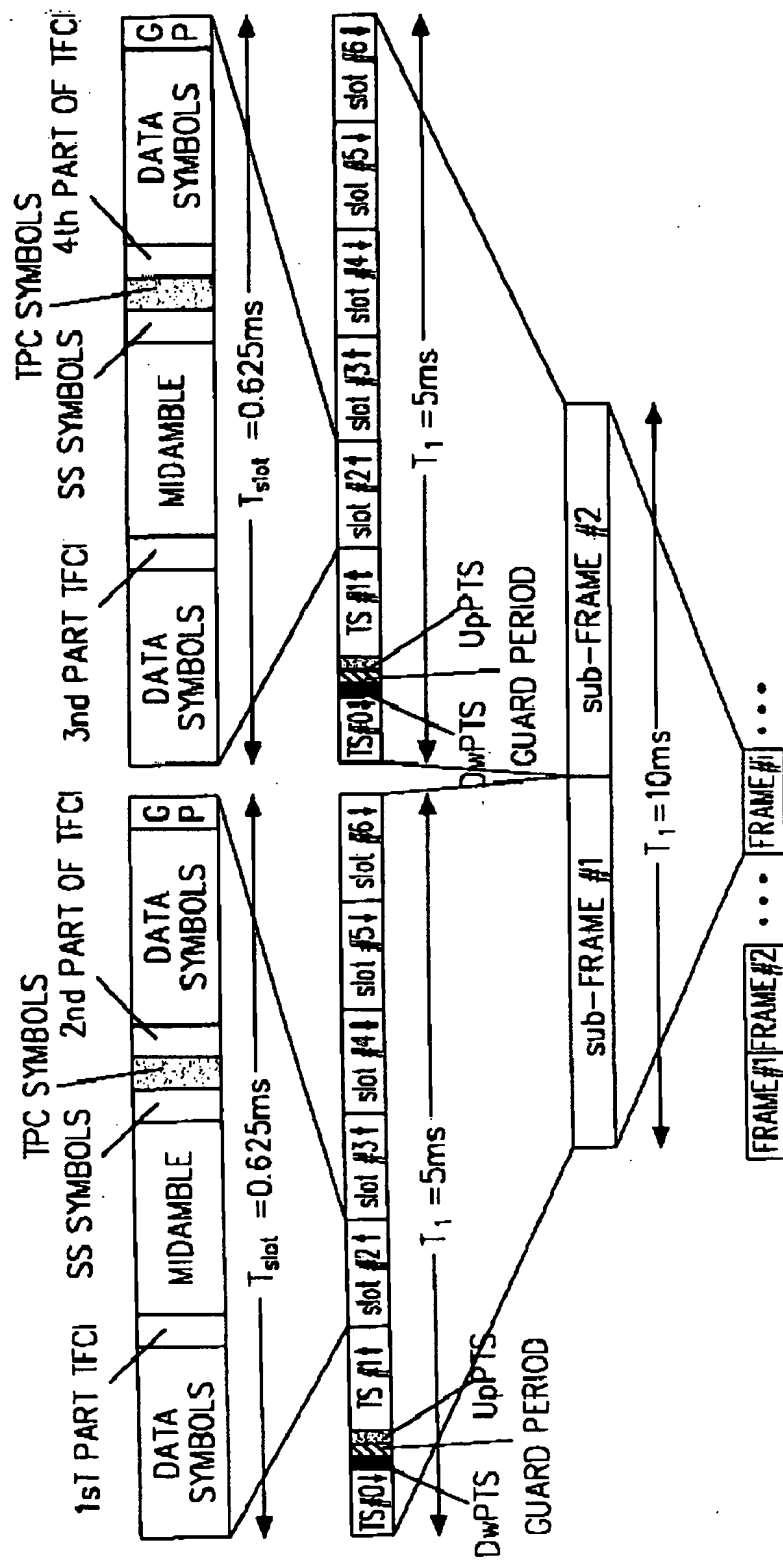


FIG. 2

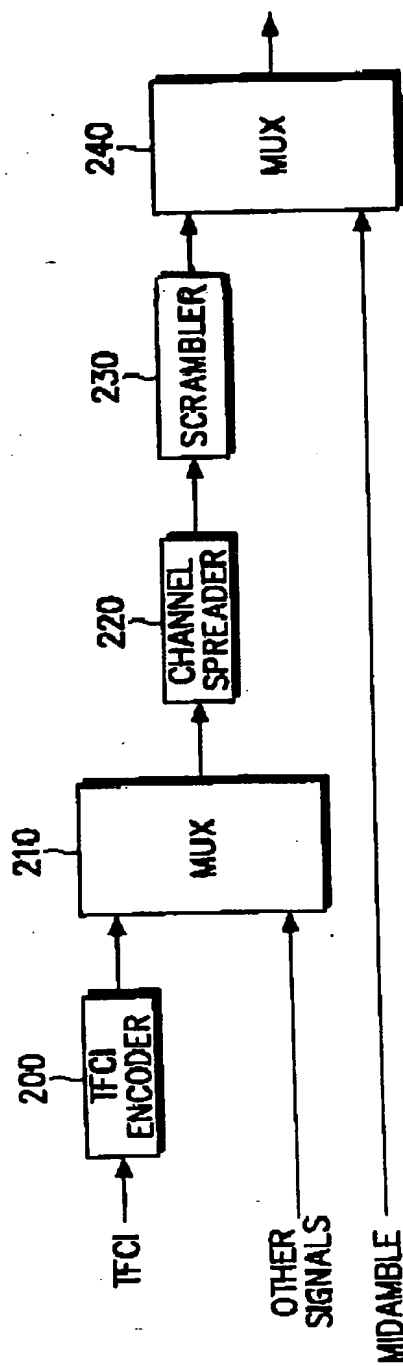
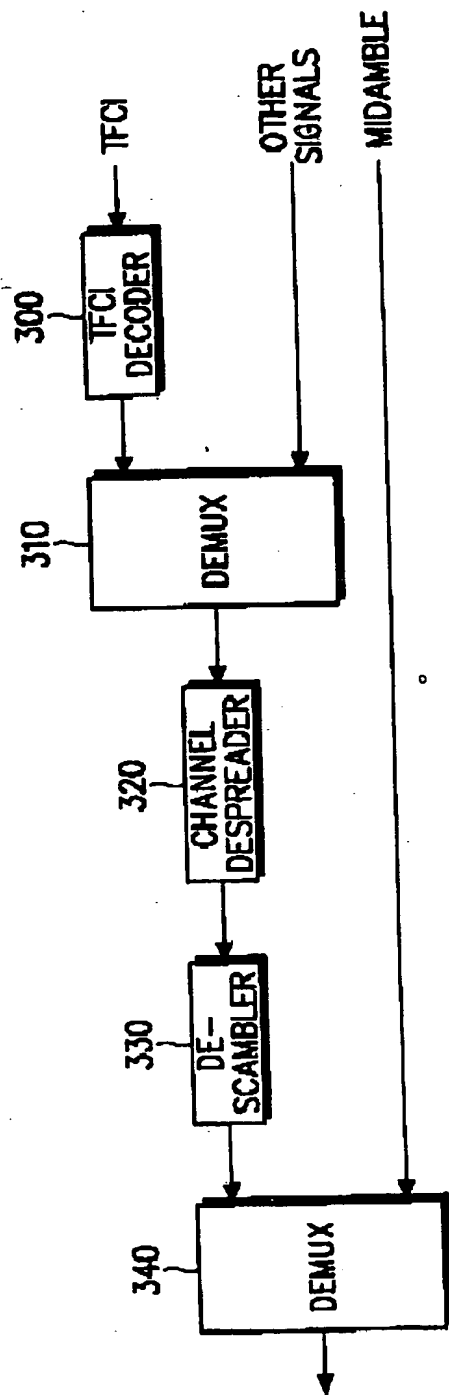


FIG. 3



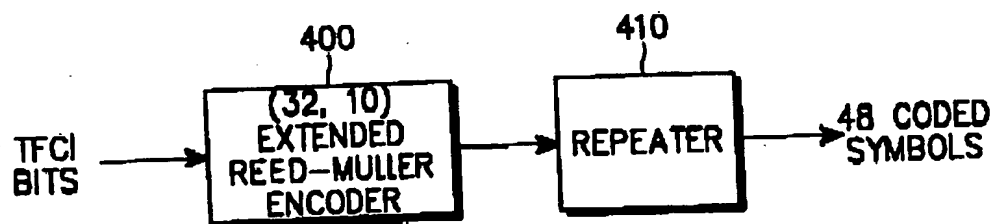


FIG. 4

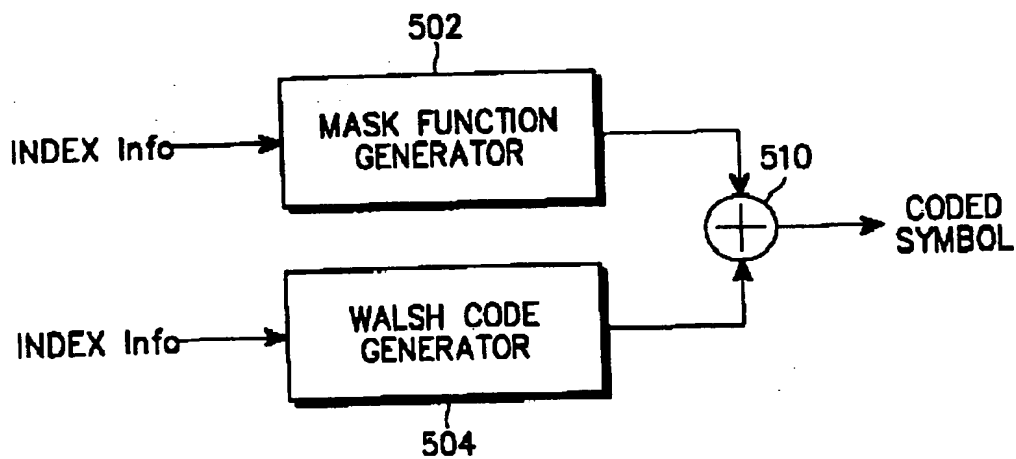


FIG. 5

09070600 061201

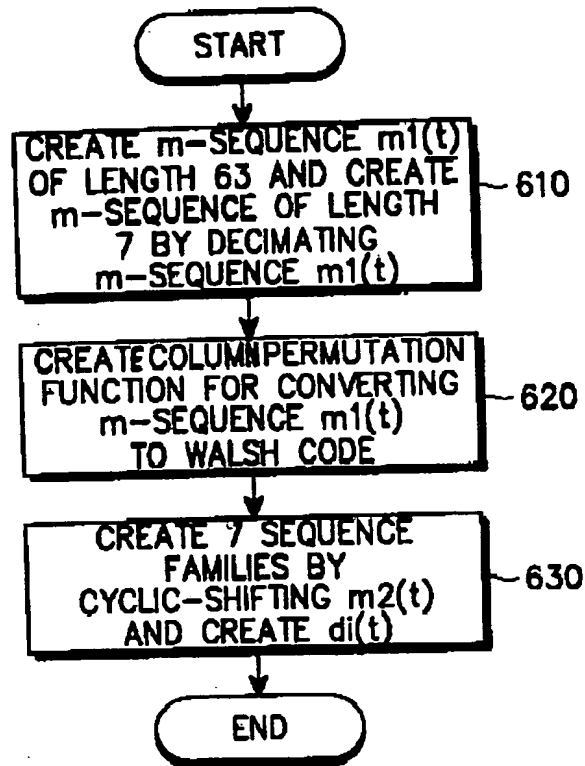


FIG. 6

FIG. 7A

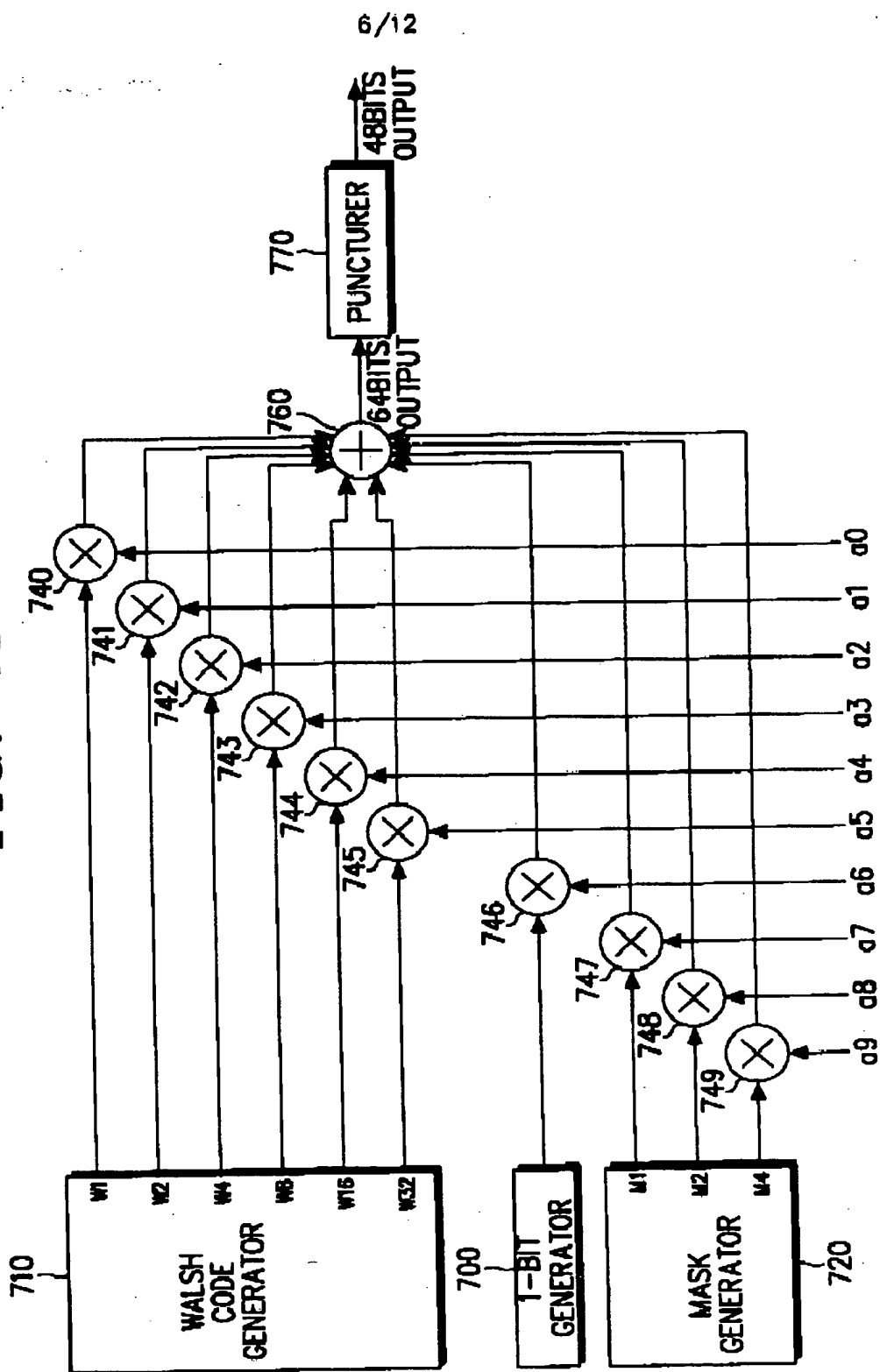
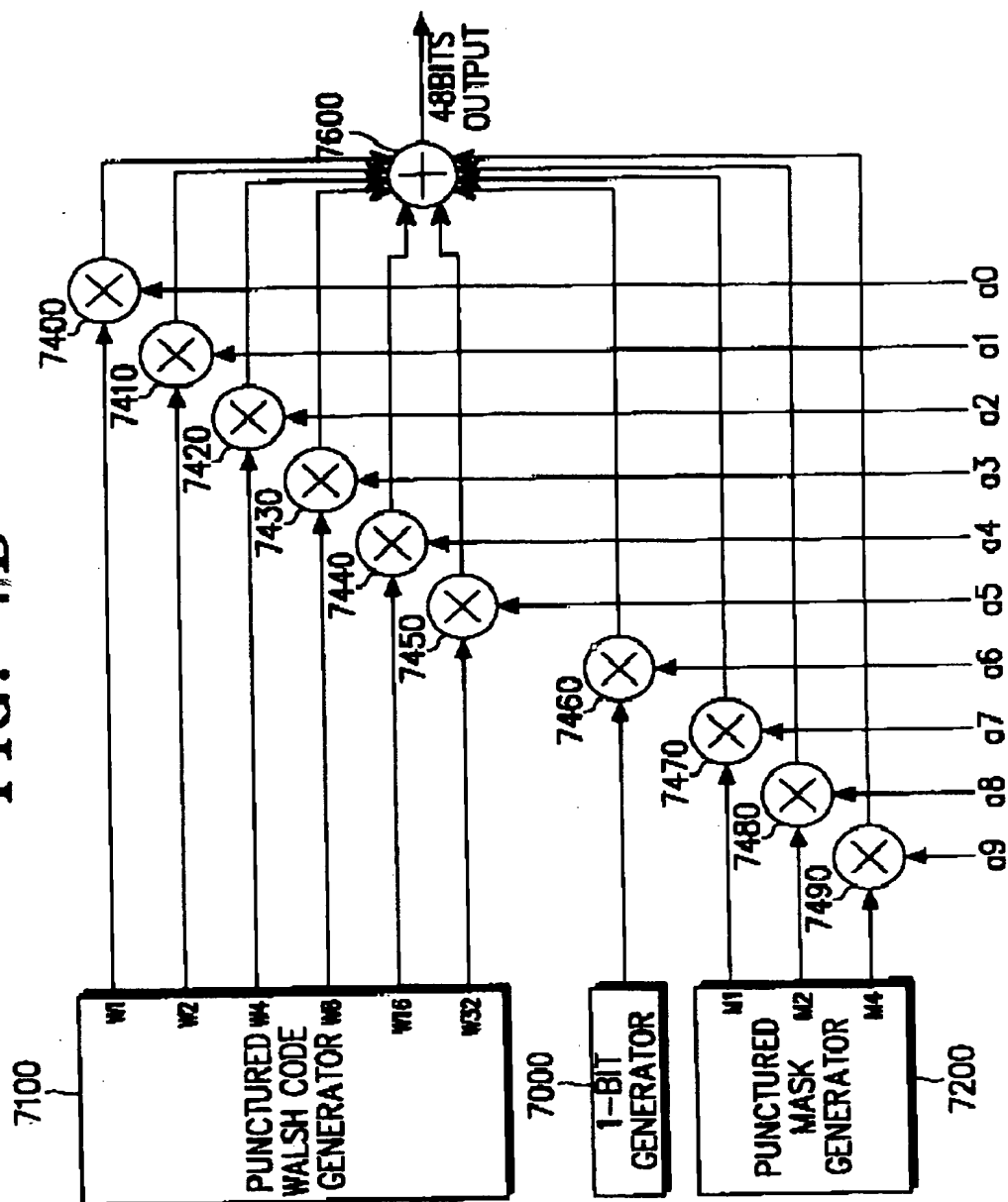


FIG. 7B



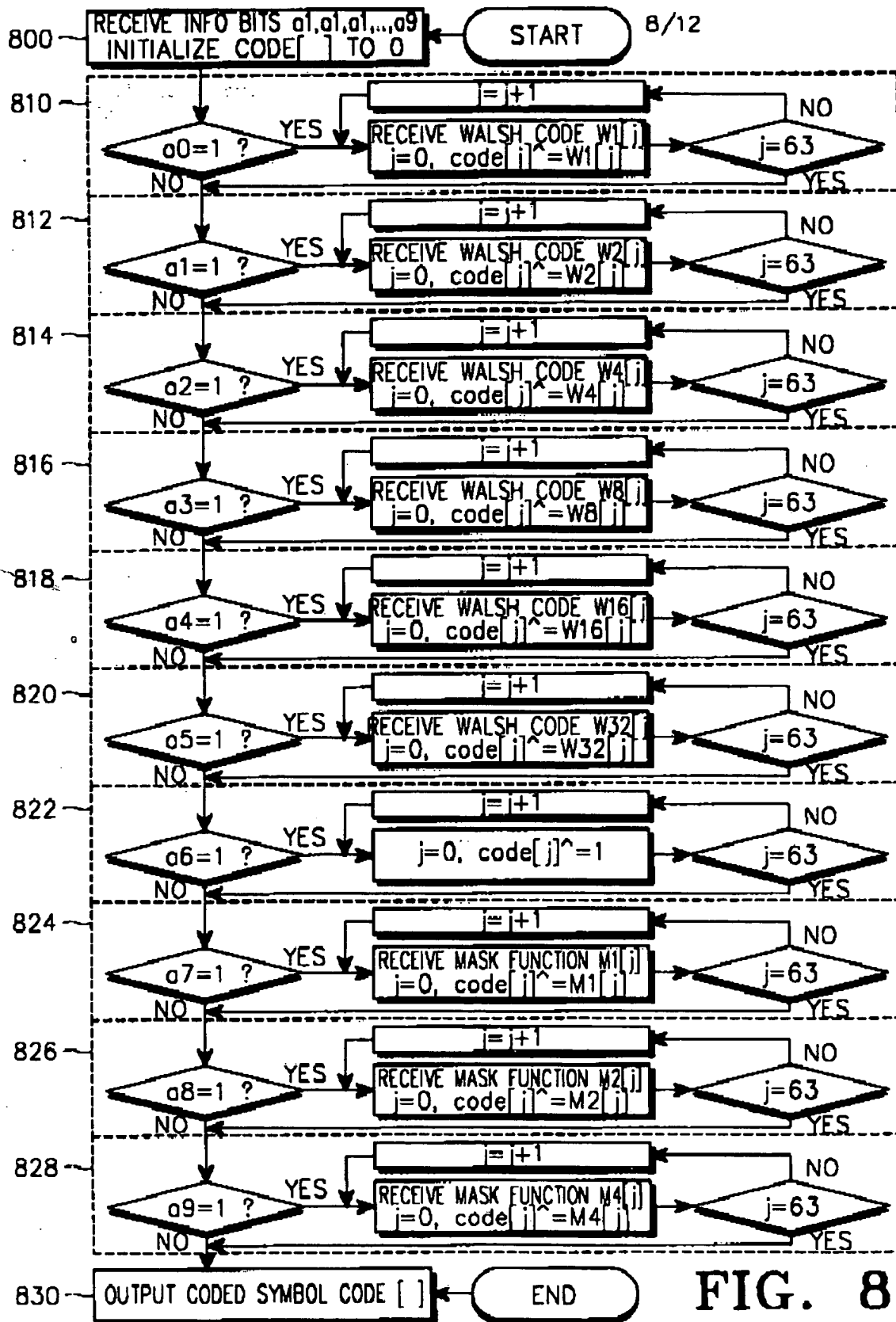


FIG. 8

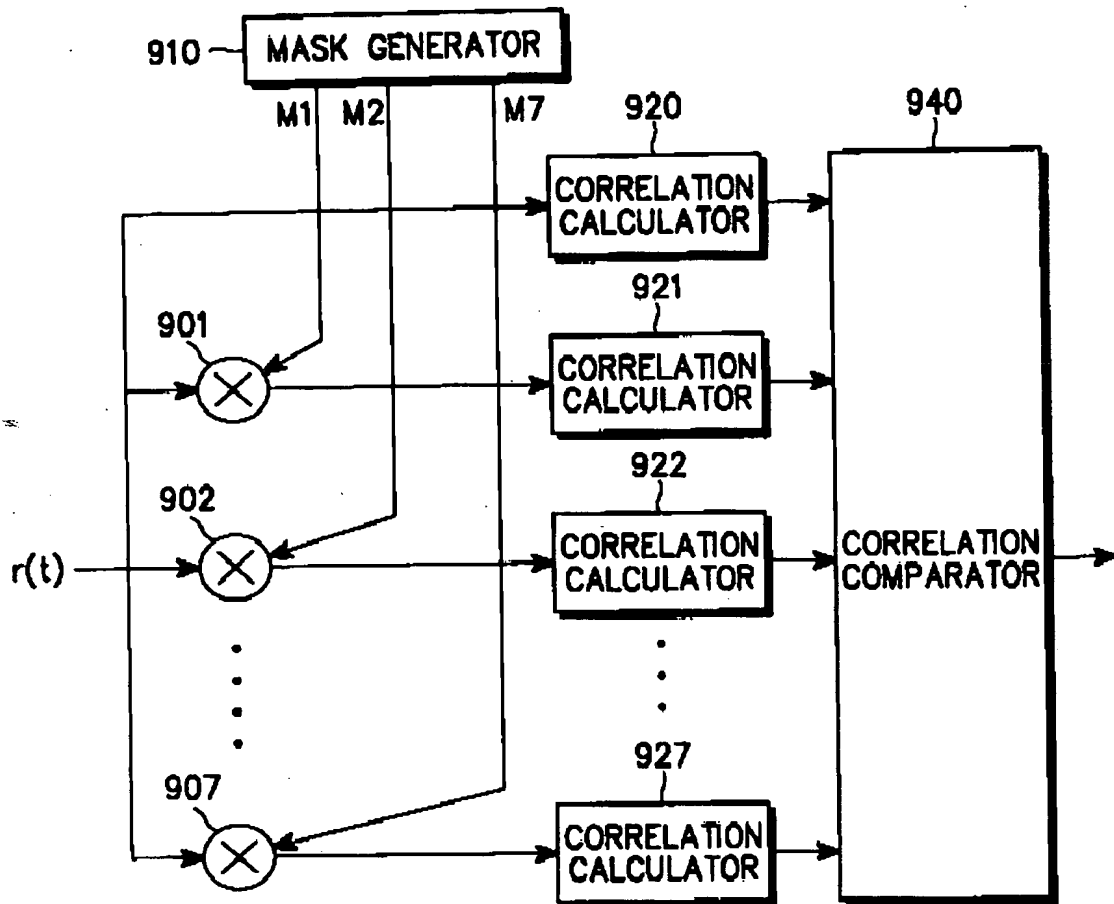


FIG. 9

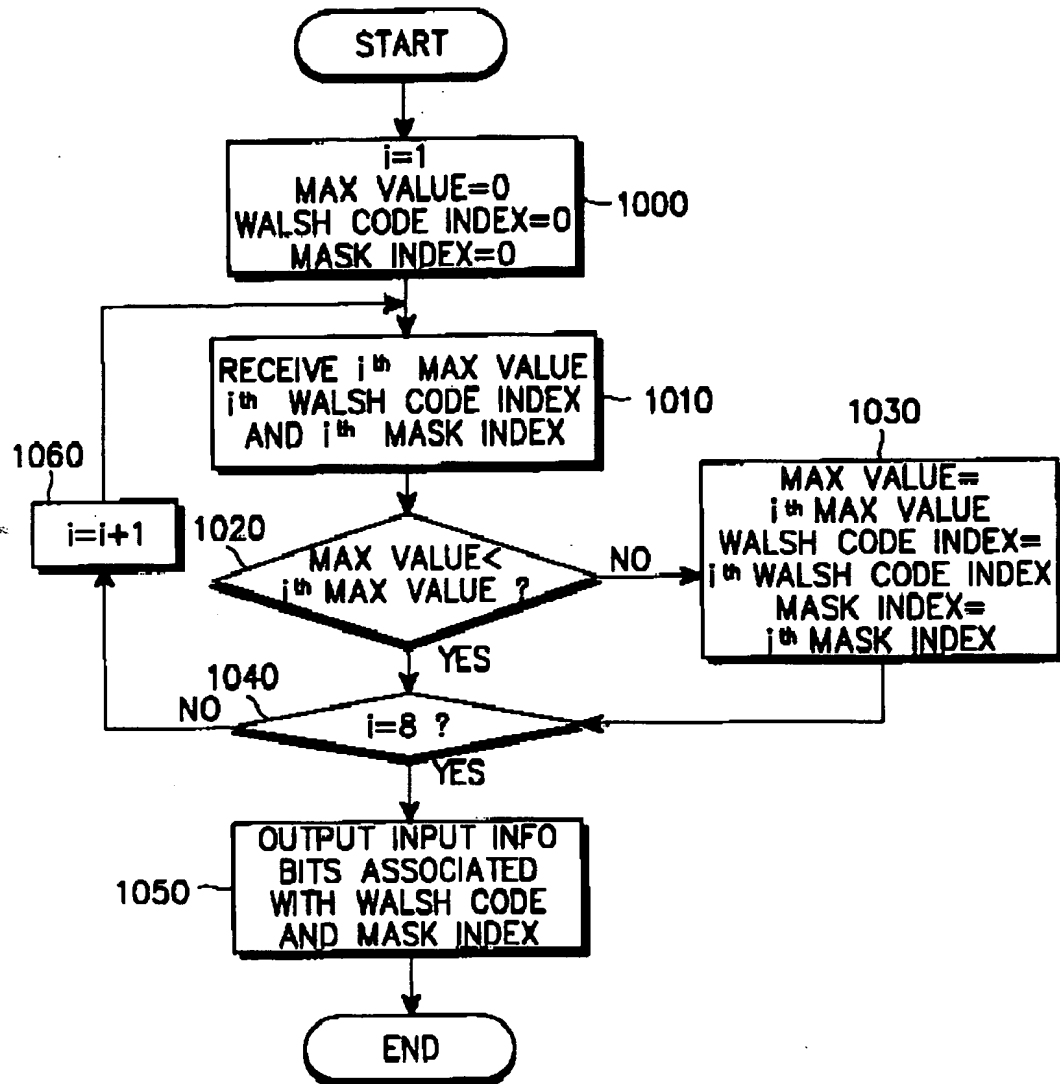


FIG. 10

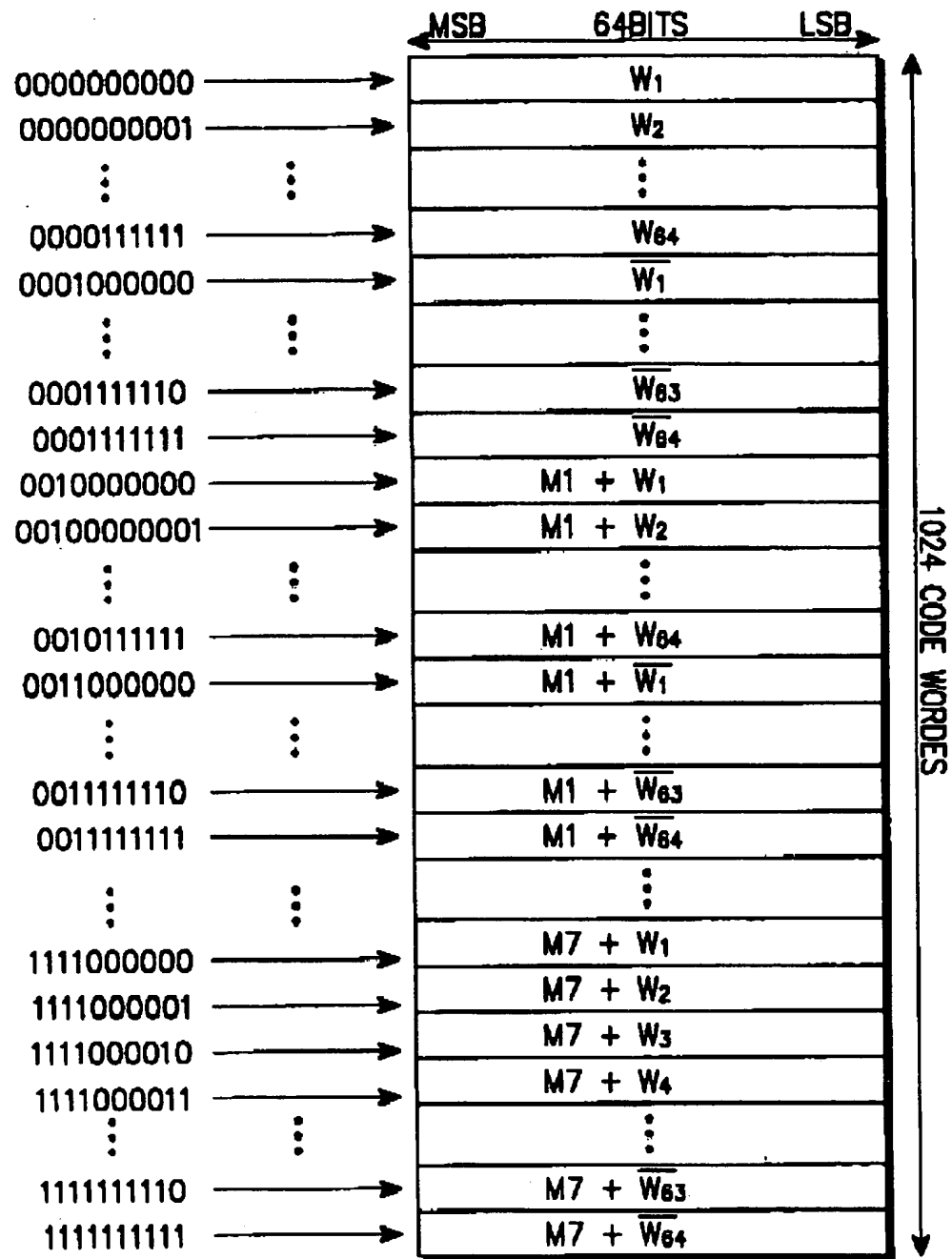


FIG. 11

12/12

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graph TD
    800[RECEIVE INFO BITS a1, a1, a1, ..., a9  
INITIALIZE CODE [ ] TO 0] --> 810{a0=1?}
    810 -- YES --> 810a[RECEIVE WALSH CODE W1[j]  
j=0, code[j]^=W1[j]]
    810 -- NO --> 810b{j=47?}
    810a --> 810b
    810b -- YES --> 812{a1=1?}
    810b -- NO --> 810b
    812 -- YES --> 812a[RECEIVE WALSH CODE W2[j]  
j=0, code[j]^=W2[j]]
    812 -- NO --> 812b{j=47?}
    812a --> 812b
    812b -- YES --> 814{a2=1?}
    812b -- NO --> 812b
    814 -- YES --> 814a[RECEIVE WALSH CODE W4[j]  
j=0, code[j]^=W4[j]]
    814 -- NO --> 814b{j=47?}
    814a --> 814b
    814b -- YES --> 816{a3=1?}
    814b -- NO --> 814b
    816 -- YES --> 816a[RECEIVE WALSH CODE W8[j]  
j=0, code[j]^=W8[j]]
    816 -- NO --> 816b{j=47?}
    816a --> 816b
    816b -- YES --> 818{a4=1?}
    816b -- NO --> 816b
    818 -- YES --> 818a[RECEIVE WALSH CODE W16[j]  
j=0, code[j]^=W16[j]]
    818 -- NO --> 818b{j=47?}
    818a --> 818b
    818b -- YES --> 820{a5=1?}
    818b -- NO --> 818b
    820 -- YES --> 820a[RECEIVE WALSH CODE W32[j]  
j=0, code[j]^=W32[j]]
    820 -- NO --> 820b{j=47?}
    820a --> 820b
    820b -- YES --> 822{a6=1?}
    820b -- NO --> 820b
    822 -- YES --> 822a[j=0, code[j]^=1]
    822 -- NO --> 822b{j=47?}
    822a --> 822b
    822b -- YES --> 824{a7=1?}
    822b -- NO --> 822b
    824 -- YES --> 824a[RECEIVE MASK FUNCTION M1[j]  
j=0, code[j]^=M1[j]]
    824 -- NO --> 824b{j=47?}
    824a --> 824b
    824b -- YES --> 826{a8=1?}
    824b -- NO --> 824b
    826 -- YES --> 826a[RECEIVE MASK FUNCTION M2[j]  
j=0, code[j]^=M2[j]]
    826 -- NO --> 826b{j=47?}
    826a --> 826b
    826b -- YES --> 828{a9=1?}
    826b -- NO --> 826b
    828 -- YES --> 828a[RECEIVE MASK FUNCTION M4[j]  
j=0, code[j]^=M4[j]]
    828 -- NO --> 828b{j=47?}
    828a --> 828b
    828b -- YES --> 830[OUTPUT CODED SYMBOL CODE [ ]]
    828b -- NO --> 828b
    830 --> END([END])
  
```

800 RECEIVE INFO BITS $a_1, a_1, a_1, \dots, a_9$
INITIALIZE CODE [] TO 0

810 $a_0=1?$ YES: RECEIVE WALSH CODE $W_1[j]$
 $j=0, \text{code}[j]^=W_1[j]$ NO: $j=47?$

812 $a_1=1?$ YES: RECEIVE WALSH CODE $W_2[j]$
 $j=0, \text{code}[j]^=W_2[j]$ NO: $j=47?$

814 $a_2=1?$ YES: RECEIVE WALSH CODE $W_4[j]$
 $j=0, \text{code}[j]^=W_4[j]$ NO: $j=47?$

816 $a_3=1?$ YES: RECEIVE WALSH CODE $W_8[j]$
 $j=0, \text{code}[j]^=W_8[j]$ NO: $j=47?$

818 $a_4=1?$ YES: RECEIVE WALSH CODE $W_{16}[j]$
 $j=0, \text{code}[j]^=W_{16}[j]$ NO: $j=47?$

820 $a_5=1?$ YES: RECEIVE WALSH CODE $W_{32}[j]$
 $j=0, \text{code}[j]^=W_{32}[j]$ NO: $j=47?$

822 $a_6=1?$ YES: $j=0, \text{code}[j]^=1$ NO: $j=47?$

824 $a_7=1?$ YES: RECEIVE MASK FUNCTION $M_1[j]$
 $j=0, \text{code}[j]^=M_1[j]$ NO: $j=47?$

826 $a_8=1?$ YES: RECEIVE MASK FUNCTION $M_2[j]$
 $j=0, \text{code}[j]^=M_2[j]$ NO: $j=47?$

828 $a_9=1?$ YES: RECEIVE MASK FUNCTION $M_4[j]$
 $j=0, \text{code}[j]^=M_4[j]$ NO: $j=47?$

830 OUTPUT CODED SYMBOL CODE []

END

FIG. 12

FIG. 12